

Notice of Allowability	Application No.	Applicant(s)	
	09/913,501	YAMASHITA ET AL.	
	Examiner	Art Unit	
	Kevin R. Kruer	1773	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to After Final amendment filed 11/7/2005.
2. ☒ The allowed claim(s) is/are 89-96,98,99,102,111 and 112.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☒ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: JP 2000-73013.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>6/30/2005</u> 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>11/30/2005</u>. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|---|--|

DETAILED ACTION

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joel Armstrong on Thursday December 8, 2005.

The application has been amended as follows:

In the second line of claim 98, the phrase - - film of an ethylene-rich random- - has been inserted before the phrase "propylene resin."

In the second line of claim 99, the phrase - -film of an ethylene-rich random- - has been inserted before the phrase "propylene resin."

Claim 100 has been canceled.

Claim 101 has been canceled.

In the sixth line of claim 112, the word - - a - - has been inserted before the word "film."

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 89-96, 98, 99, 102, 111, and 112 are allowed.

The closest prior art is Chow et al (US 5,134,046) in view of Steele et al (US 5,242,714), and Kawahara et al (US 4,828,136). Chow teaches a method of making a

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metallic foil covering for a battery (abstract). The foil comprises an aluminum foil, a thermoplastic adhesive film (col 1, lines 65+), and a protective layer adhered to the surface of the metal foil opposite the thermoplastic adhesive (col 2, lines 36+). The protective and adhesive layers are laminated to the foil (col 2, lines 36+). Steele teaches a process for forming a conversion coating comprising phenolic resin, trivalent chromium, fluoride, and phosphoric acid on aluminum surfaces (abstract). Kawahara teaches aluminum may be laminated to thermoplastic resin layers by various known methods such as hot melting, extrusion coating, sandwich lamination or dry lamination using an adhesive (col 14, lines 65+). If the adhesive is a thermoplastic resin, it can be co-extruded with the thermoplastic resin in the form of a laminate film and heat fused to the aluminum substrate by passing the foil and the laminate film through rolls and heating (col 14, lines 65+).

The claims are allowable over the prior art because the prior art fails to teach or render obvious a method of manufacturing a polymer battery module packaging sheet comprising the steps of processing at least one surface of the aluminum foil by chemical conversion treatment, dry laminating a base layer thereto, and laminating a film comprising an adhesive layer to the conversion coated layer of the aluminum by passing the laminate between a chill roll and pressure roll, and heating the laminate, which has been cooled by passing the laminated sheet between the chill roll and the pressure roll, so that the adhesive resin layer is heated at a temperature not lower than its softening point.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin R. Kruer whose telephone number is 571-272-1510. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on 571-272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Kevin R. Kruer
Patent Examiner-Art Unit 1773